



## Finding Associative Property

Name: \_\_\_\_\_

Determine which choice is not an equivalent equation.

- 1) Which expression is not equal to  $8 \times (9 \times 7)$   
A.  $(8 \times 9) \times 7$   
B.  $72 \times 7$   
C.  $81 \times 7$   
D.  $8 \times 63$
- 2) Which expression is not equal to  $6 \times (5 \times 2)$   
A.  $6 \times 5$   
B.  $6 \times 10$   
C.  $30 \times 2$   
D.  $(6 \times 5) \times 2$
- 3) Which expression is not equal to  $(2 \times 5) \times 4$   
A.  $10 \times 4$   
B.  $5 \times 4$   
C.  $2 \times (5 \times 4)$   
D.  $2 \times 20$
- 4) Which expression is not equal to  $2 \times (5 \times 10)$   
A.  $(2 \times 5) \times 10$   
B.  $10 \times 10$   
C.  $2 \times 50$   
D.  $5 \times 10$
- 5) Which expression is not equal to  $(10 \times 3) \times 8$   
A.  $30 \times 8$   
B.  $10 \times 27$   
C.  $10 \times (3 \times 8)$   
D.  $10 \times 24$
- 6) Which expression is not equal to  $(5 \times 2) \times 10$   
A.  $10 \times 10$   
B.  $5 \times 22$   
C.  $5 \times 20$   
D.  $5 \times (2 \times 10)$
- 7) Which expression is not equal to  $10 \times (3 \times 2)$   
A.  $(10 + 3) \times 2$   
B.  $10 \times 6$   
C.  $30 \times 2$   
D.  $(10 \times 3) \times 2$
- 8) Which expression is not equal to  $3 \times (2 \times 9)$   
A.  $(3 + 2) \times 9$   
B.  $(3 \times 2) \times 9$   
C.  $6 \times 9$   
D.  $3 \times 18$
- 9) Which expression is not equal to  $7 \times (10 \times 6)$   
A.  $7 \times 60$   
B.  $70 \times 6$   
C.  $7 \times 50$   
D.  $(7 \times 10) \times 6$
- 10) Which expression is not equal to  $2 \times (7 \times 9)$   
A.  $14 \times 9$   
B.  $(2 \times 7) \times 9$   
C.  $(2 + 7) \times 9$   
D.  $2 \times 63$
- 11) Which expression is not equal to  $4 \times (6 \times 10)$   
A.  $30 \times 10$   
B.  $4 \times 60$   
C.  $(4 \times 6) \times 10$   
D.  $24 \times 10$
- 12) Which expression is not equal to  $5 \times (2 \times 10)$   
A.  $10 \times 10$   
B.  $(5 + 2) \times 10$   
C.  $(5 \times 2) \times 10$   
D.  $5 \times 20$

## Answers

1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_  
11. \_\_\_\_\_  
12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

1) Which expression is not equal to  $8 \times (9 \times 7)$ 

- A.  $(8 \times 9) \times 7$   
B.  $72 \times 7$   
C.  $81 \times 7$   
D.  $8 \times 63$

3) Which expression is not equal to  $(2 \times 5) \times 4$ 

- A.  $10 \times 4$   
B.  $5 \times 4$   
C.  $2 \times (5 \times 4)$   
D.  $2 \times 20$

5) Which expression is not equal to  $(10 \times 3) \times 8$ 

- A.  $30 \times 8$   
B.  $10 \times 27$   
C.  $10 \times (3 \times 8)$   
D.  $10 \times 24$

7) Which expression is not equal to  $10 \times (3 \times 2)$ 

- A.  $(10 + 3) \times 2$   
B.  $10 \times 6$   
C.  $30 \times 2$   
D.  $(10 \times 3) \times 2$

9) Which expression is not equal to  $7 \times (10 \times 6)$ 

- A.  $7 \times 60$   
B.  $70 \times 6$   
C.  $7 \times 50$   
D.  $(7 \times 10) \times 6$

11) Which expression is not equal to  $4 \times (6 \times 10)$ 

- A.  $30 \times 10$   
B.  $4 \times 60$   
C.  $(4 \times 6) \times 10$   
D.  $24 \times 10$

2) Which expression is not equal to  $6 \times (5 \times 2)$ 

- A.  $6 \times 5$   
B.  $6 \times 10$   
C.  $30 \times 2$   
D.  $(6 \times 5) \times 2$

4) Which expression is not equal to  $2 \times (5 \times 10)$ 

- A.  $(2 \times 5) \times 10$   
B.  $10 \times 10$   
C.  $2 \times 50$   
D.  $5 \times 10$

6) Which expression is not equal to  $(5 \times 2) \times 10$ 

- A.  $10 \times 10$   
B.  $5 \times 22$   
C.  $5 \times 20$   
D.  $5 \times (2 \times 10)$

8) Which expression is not equal to  $3 \times (2 \times 9)$ 

- A.  $(3 + 2) \times 9$   
B.  $(3 \times 2) \times 9$   
C.  $6 \times 9$   
D.  $3 \times 18$

10) Which expression is not equal to  $2 \times (7 \times 9)$ 

- A.  $14 \times 9$   
B.  $(2 \times 7) \times 9$   
C.  $(2 + 7) \times 9$   
D.  $2 \times 63$

12) Which expression is not equal to  $5 \times (2 \times 10)$ 

- A.  $10 \times 10$   
B.  $(5 + 2) \times 10$   
C.  $(5 \times 2) \times 10$   
D.  $5 \times 20$

**Answers**1. **C**2. **A**3. **B**4. **D**5. **B**6. **B**7. **A**8. **A**9. **C**10. **C**11. **A**12. **B**